

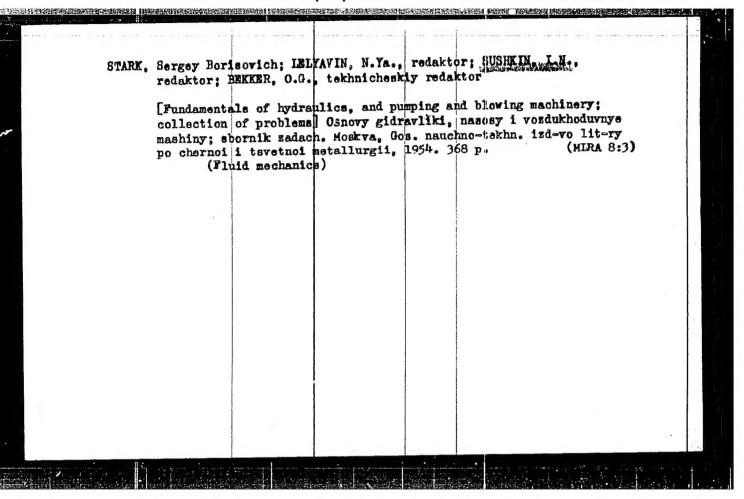
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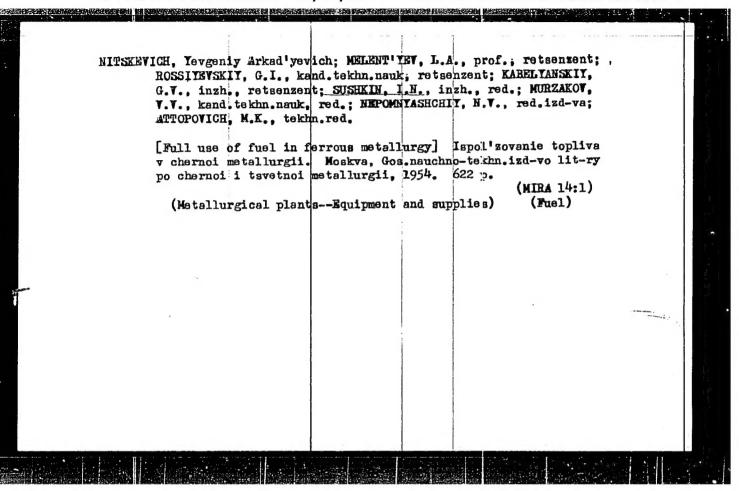
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First All-Union Conference on Statistical Radio Physics. Izv. vys. ucheb. zav. radiotekh. 2 no.1:121-127 Ja-F '59. (MIRA 12:5) 1. Nauchno-issledovatel 'skiy radiofizicheskiy institut pri Gor'kovskom gosudarstvennom universitete im. N.I. Lobachevskogo. (RadioCongresses)					e e e e e e e e e e e e e e e e e e e	
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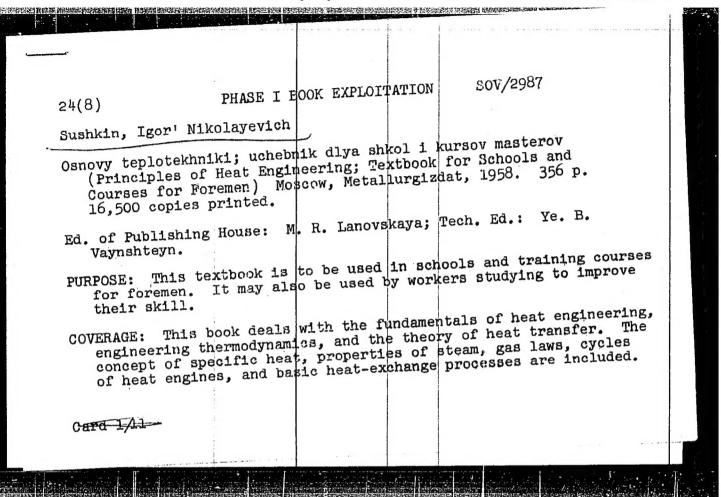
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GARYAYEV, Andrey L'vovich; SUSHKIN, I.N., redaktor; EVENSON, I.M., tekhnicheskiy redaktor.	
[Preparation and repair of metal structures in metallurgical plants] Izgetovlenie i remont metallokonstruktsii na metallurgical cheskikom savode. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry pe chernot i tsvetnoi metallurgii, 1957. 379 p. (MIRA 10:6) (Metalwork)	

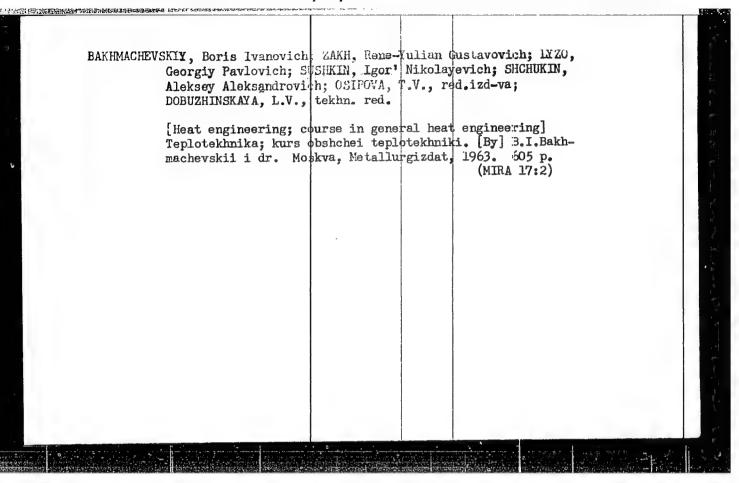


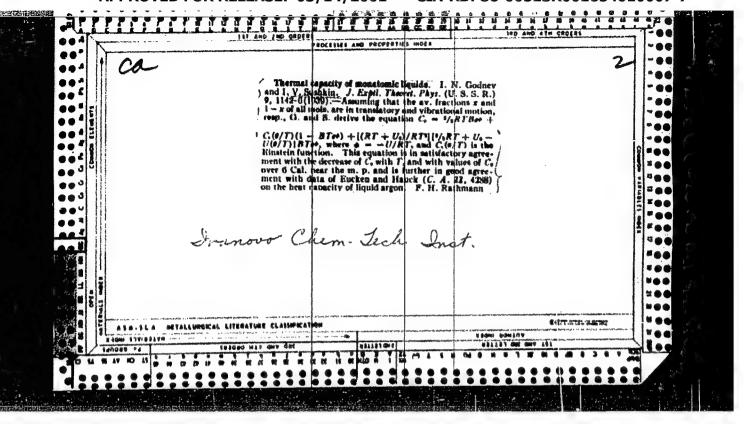
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1	[New trends in the use of secondary power resources in heavy industry; combined production and power engineering connected	
	with industrial flame processes; Novye puti ispol'zovanila vvo- richnykh energeresursov tiazheloi promyshlennosti; energotekhno- logichestos kombinirovanie v promyshlennoi ognetekhnike. Moskva,	
	Gos.nauchno-tekhn.izd-vo lit-ry po chernoi i tavetnoi metallurgii. 1960. 39 p. (MIRA 13:3)	
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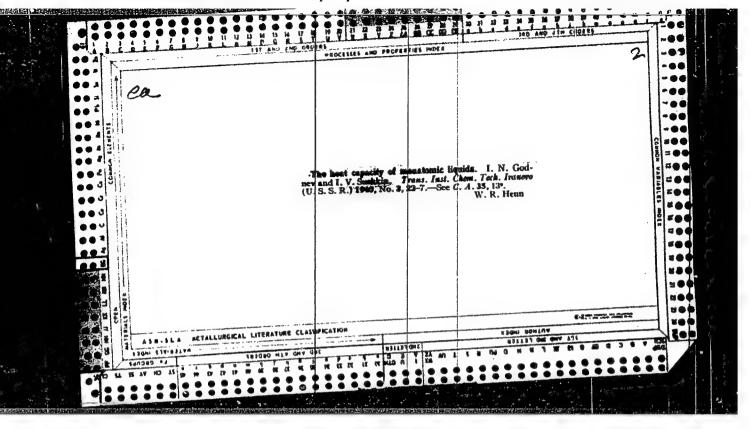
KALASHNIKOV, N.V.; STOTSKIY, L.R.; GLINER, B.M. [deceased]; DOBRYNINA, N.P.; DUBROVSKAYA, Kh.A.; YEZDAKOVA, M.L.; LYUBIMOV, N.G.; PONOMAREVA, K.A.; REYKHTSAUM, P.B.; SMIRNOV, V.I.; SUSHKIN, I.N.; SHAKHMAYEVA, Ye.A., vedushchiy red.; POLOSINA, A.S., tekhn. red.

[Units of measurement and abreviations of physical and technical values; manual for editors and writers] Edinitsy izmereniia i oboznacheniia fiziko-tekhnicheskikh velichin; spravochnik dlia rabotnikov izdatel stv i avtorov. Moskva, Gos. nauchno-tekhn. izd-vo neft. i gorno-toplivnoi lit-ry, 1961. 254 p. (MIRA 14:9)

1. Gosudarstvennoye nauchno-tekhnicheskoye izdatel stvo neftyanoy i gorno-toplivnoy promy shlennosti (for Kalashnikov, Dobrynina, Smirnov). 2. Moskovskiy institut neftekhlmicheskoy i gazovoy promyshlennosti im. akad. hubkina, (for Stotskiy). 3. Gosudarstvennoye nauchno-tekhnicheskoye izdatel stvo Ministerstva promyshlennosti prodovol stvennykh tovarov (for Dubrovskaya). 4. Gosudarstvennoye nauchno-tekhnicheskoye izdatel stvo literatury po chernoy i tsvetnoy metallurgii (for Yezdakova, Sushkin). 5. Gosgortekhizdat (for Lyubimov). 6. Gosudarstvennoye nauchno-tekhnicheskoye izdatel stvo mashino-stroitel noy literatury (for Ponomareva). 7. Gosudarstvennoye nauchno-tekhnicheskoye izdatel stvo khimicheskoy literatury (for Reykhtsaum). (Engineering—Nutation)







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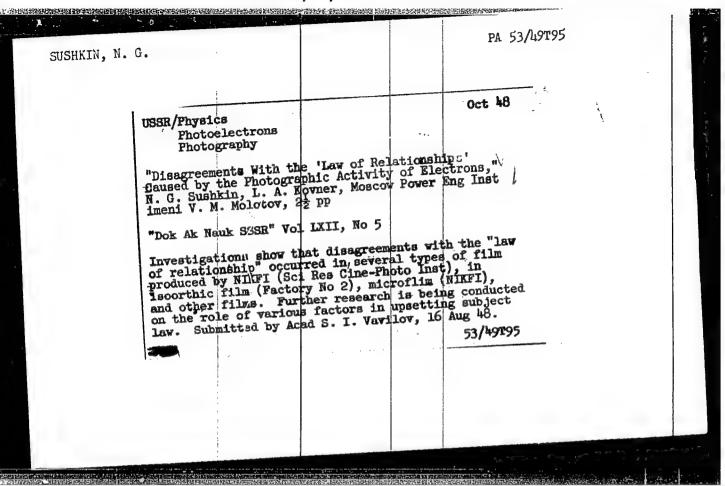
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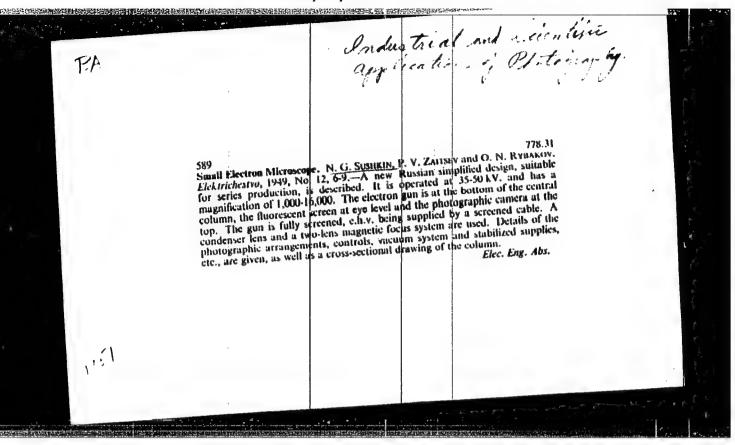
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"Zhur Tekh Fiz" Vol XVIII, No 9 Treats under: (1) determination of focal length of magnetic lens, (2) measurement of magnetic field distribution along the axis of the lens, and (3) discussion of results and conclusions. Submitted 17 Jan 48. PA 3249T18	SUSHKIN, N. G. USSR/Electronics Microscopes, Electron Electrical Equipment USelecting the Material for the Pole N. G. Sushkin, 62 pp.	Shoes of an Electron Microscope, Sh. M. Rakhimov,	
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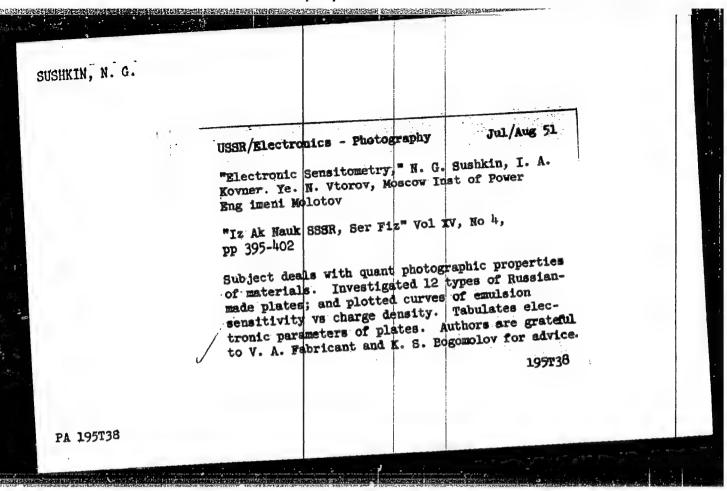
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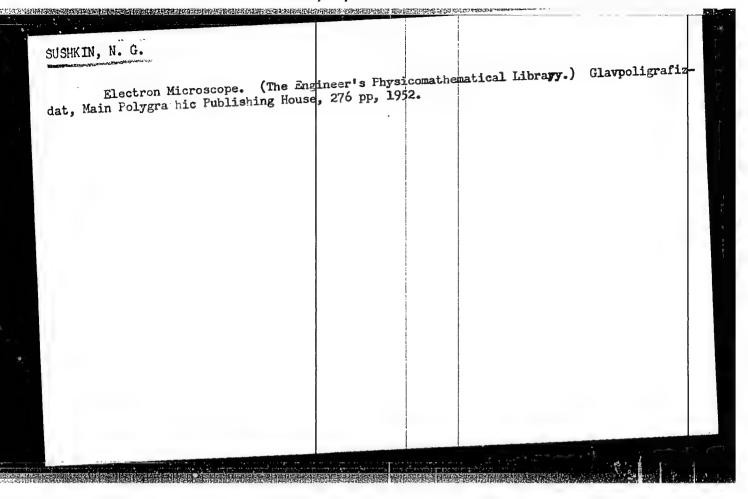


	52/19799	diffracted one by one and wave properties are ascribed to each particle. At present there can hardly be any doubt as to the correctness of this assumption; however, importance of experiments on diffraction of particles is so great that there is some point in carrying out a real experiment on diffraction of single electrons. Describes such an experiment, using a modified electron pitrossope, type EM-100. Includes two photographs. Submitted by Acad S. I. Vavilov, 16 Mar 49.	raction of electron picture the electron experiment in which the chanics in the change in the chanics in the change in the chanics in the chance in the chanics in the chanics in the chanics in the chanics in the chan	"Alternate Diffraction Electron Microscopy "Alternate Diffraction of Flying Electrons," L. Biberman, N. Sushkin, V. Fabrikant, Moscow Power Eng Inst imeni V. M. Molotov, 2 pp "Dok Ak Nauk SSSR" Vol IXVI. No 2	
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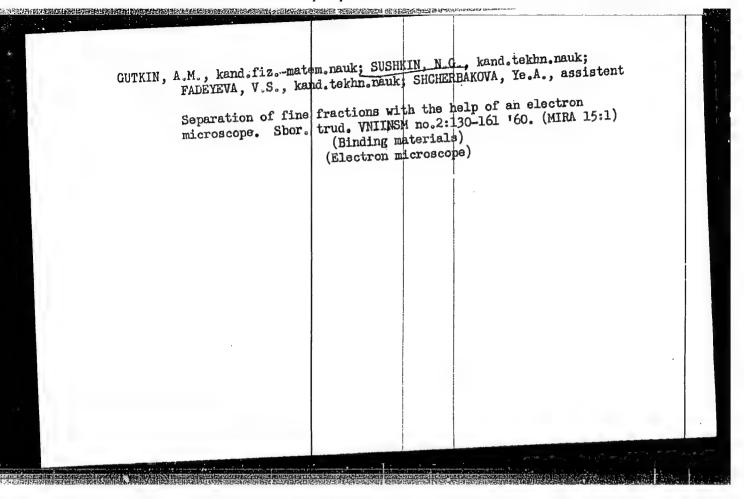
Sushkin, N.G. K-11 USSR/Optics - Photography : Referat Zhur - Fizika, No 5, 1957, 13247 Abs Jour : Sushkin, N.G., Forina, I.A. Author : Moscow Power Institute, USSR Inst : Optimum Conditions for the Development of Photographic Plates, Exposed by Medium Energy Electrons. Title : Zavod. laboratoriya, 1956, 22, No 8, 961-964 Orig Pub : An investigation was made of the kinetics of the development of electronographic plate E-III, exposed in an elec-Abstract tron microscope-sensitometer with electrons of energies 32, 60, and 80 kev, and developed in seven different developers. From the resultant families of density curves D at various conditions of development, and families of curves of the kinetics of the development for various values of electron energy and for various values of the charge Card 1/2

USSR/Optics - Photography K-11 Abs Jour : Ref Zhur - Fizika, No 5, 1957, 13247 density, it follows that the maximum of D at 32 kev is given by the "Final'" brand developer. The NIKFI X-ray developer gives a somewhat lower value of D with considerably less fog. At energies of 60 and 80 kev, the X-ray developer is much superior, with respect to the resultant value of D, than all other developers. For developer brands "Final'" and "Atomal'" one observes an exceedingly slow increase in D with time of development for all values of electron energy. Special experiments have shown that this feature is due to the specific nature of the photographic action of the electron, and is not observed when light sensitograms are developed. The optimum development mode for the plate E-III in X-ray developer NIKFI is nine minutes at $18 \pm 0.5^{\circ}$. Card 2/2

VUL'FSON, K.S., prof.; GUREVICH, M.M., prof.; MESHKOV, V.V., prof.; NILENDER, R.A., prof.; YUROV, S.G., kand, tekhn. nauk; SOKOLOV, M.V., prof.; BIBERMAN, L.M., kand. tekhn. nauk; BURATEVA, F.A., kand. tekhn. nauk; IVANOVA, N.S., kand. tekhn. nauk; SUSHKIN, Hallender, tekhn. nauk; Valentin Aleksandrovich Fabrikant; on his 50th birthday. Svetotekhnika 3 no.12:24-25 D '57.

(Fabrikant, Valentin Aleksandrovich, 1907-)

AUTHORS & TITLE:	Suchkin N. G. Kushnir, Yu. M. 57-28-4-35/39 On the Action of Electrons Upon Multilayer Photographic mnogosloynyye fotoplenki) Films (O deystvii elektronov na mnogosloynyye fotoplenki)	
PERIODICAL:	Zhurnal Tekhnicheskoy Fiziki, 1958, Vol. 28, Nr 4, pp. 908-909 (USSR)	
ABSTRACT:	For the determination of the behavior of a multilayer photographic film on irradiation by electrons the authors the results of which are performed special experiments, the results of which are the results of which are experiments were performed in two electron-microscopes and electron-microscope 3 M-loo electron-microscope 3 M-loo electron-microscope of tion-electron-microscope of is shown that the exposure of the multilayer colorphotographic film to electrons of different velocities dauses a different coloring of the film. It is further shown that the color shade depends on the velocity of the electrons with a modification of the velocity of electrons mainly the shade of the film changes. On a modification of the time of exposure by the beam and of the intensity mainly the saturation of the color changes.	t
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ACCESSION NR: AP4004154

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AUTHOR: Sushkin, N. G.

TITLE: Czochralski method of growing refractory metal single crys-

tals with electron beam heating

Teplofizika vy*sokikh temperatur, v.l., no. 2, 1963, 313-315 SOURCE:

TOPIC TAGS: single crystal, single crystal growth, Czochralski method, electron beam heating, refractory metal single crystal, metal single crystal, metal crystal growing, electron beam

ABSTRACT: Since ordinary crystal growing by zone purification with electronic heating is very labor consuming and the size of the single crystals is quite limited, the application of the Czochralski method of drawing single crystals from a melt of a refractory material is of great practical interest. If the Czochralski method is combined with electronic rather than arc heating (the pool of

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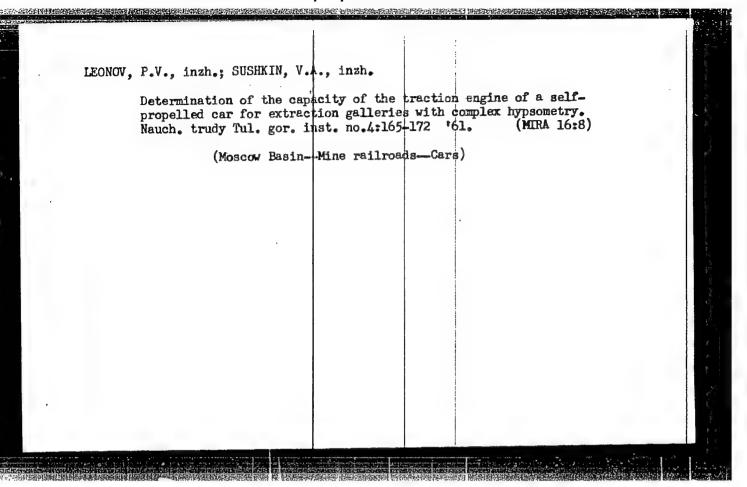
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AUTHORS: Sushkin, N. G.; Pereshogi	Me Me I.	~ <i>l</i>	B
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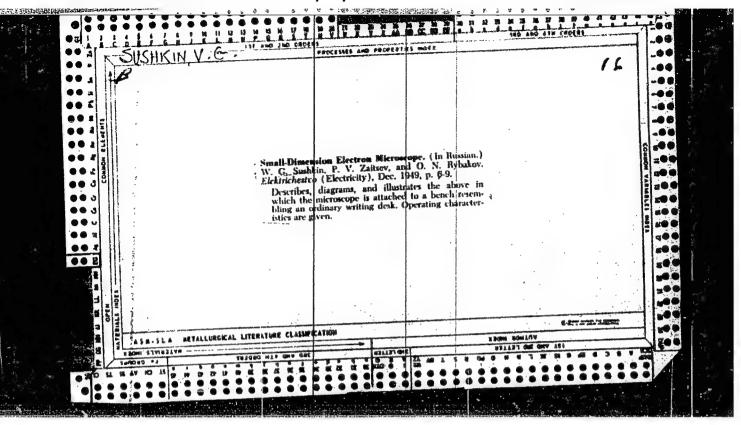
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TITLE: Gr	aphic constr	ruction of the	trajectory	of electron	s in a magnet	ron gun	,
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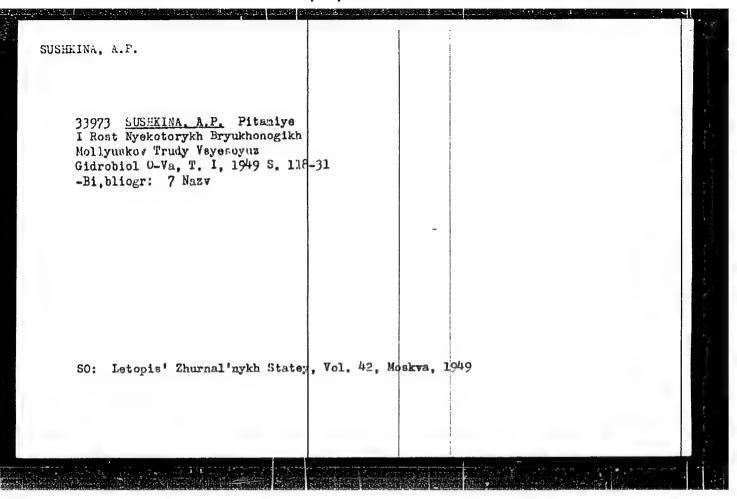


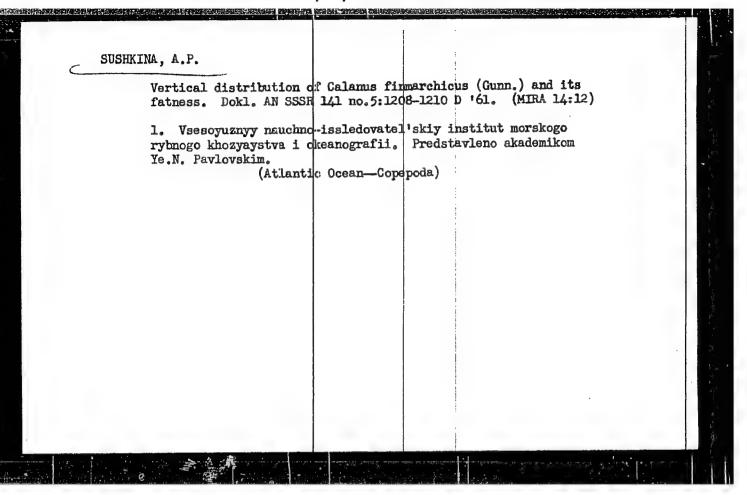
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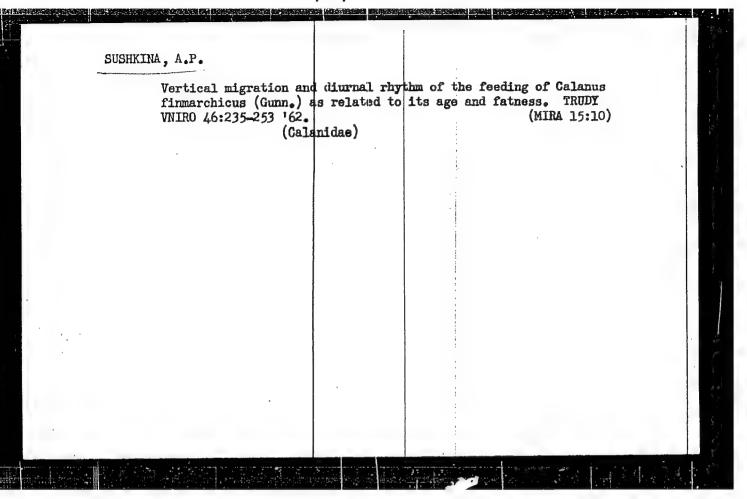
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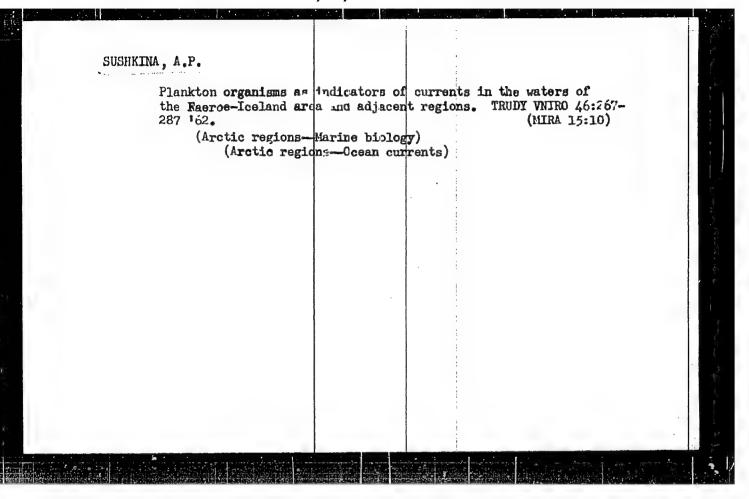


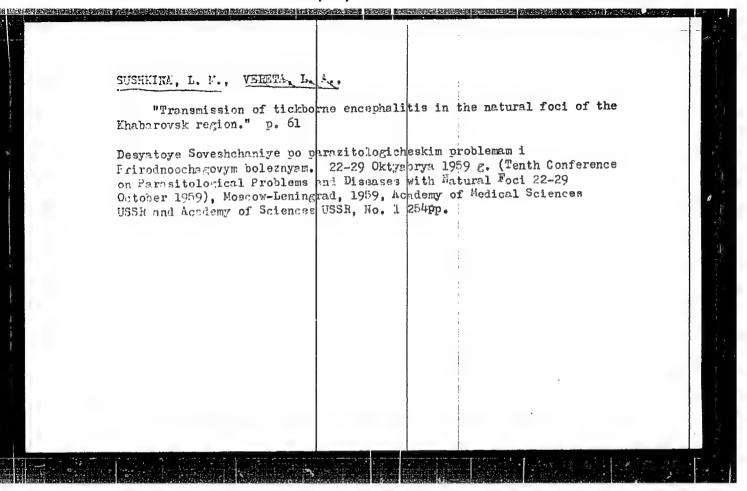


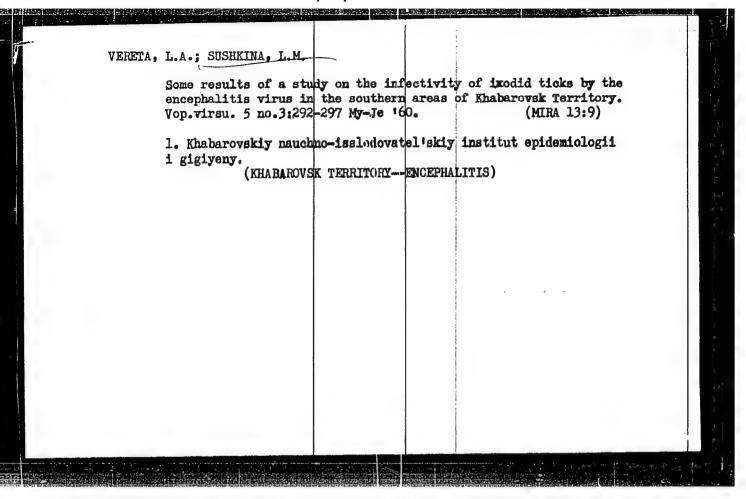
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AUTHORS:

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Al'shits, I. Ya.; Sushkina, L. N.

TITLE:

New antifriction materials and coatings

PERIODICAL: Referativnyy zhurnal, Mashinostroyeniye, no. 11, 1961, 22, abstract 11A175 (V sb. "Povysheniye iznosostoykosti i sroka sluzhby mashin.

v. 2". Kiyev, AN UkrS\$R, 1960, 18-27)

The authors present the results of investigating the properties of TEXT: antifriction materials: rubber, materials on the base of graphite, fluoroplastis, polyamides, pressed wood pulp, cord fibers, cotton fibers and AU (DTs) plastics. They determined the resistance to wear and coefficient of friction / of five rubber grades of 86-54 shore hardness during boundary lubrication by clean water and water with abrasives. The counterbody rollers were made of 2 13 (2Kh13) grade steel, sliding speed v = 0.4 m/sec, p = 15 kg/cm², test duration = 24,000 revolutions. The wear magnitude of the counter body was insignificant, while the rubber wear was 17-155 μ . An addition of 10% abrasive to the water increased the counterbody wear by 100-300 times and reduced the rubber wear. The friction coefficient M of the rubber is lower when operating with an abrasive than with cle

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New antifriction materials and coatings

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clean water lubrication. The test with rubber bearings proved that at $p=70 \text{ kg/cm}^2$, $\mu=0.002\text{-}0.008$. A reduction in the water consumption to 0.125 liter · how/cm² at $p=20 \text{ kg/cm}^2$ and v=3.45 m/sec does not affect the operation of the bearings. Rubber bearings can resist under hydrodynamic lubrication conditions a pressure of $p=100\text{-}200 \text{ kg/cm}^2$. Under boundary lubrication conditions rubber of wear and plastics. The load capacity of the investigated rubber grades does not exceed 15kg/cm². The testing of graphite during friction in a couple with rollers or shafts made of 45 grade steel of a hardness of 48-52 R showed the resistance to wear ($\mu=0.16\text{-}0.23$) approximately twice as high as that of non-impregnated graphite. When graphite impregnated with metal is water-lubricated, its wear increases by a factor of 20, $\mu=0.06\text{-}0.09$. Lubrication with oil results in $\mu=0.09\text{-}0.04\text{-}1$. Of the plastics the most durable one concerning the effect of aggressive media is fluoroplastic 4 with an operating temperature of 250°, a water absorption of 0 and a hardness of 3-4 kg/mm². The best polyamide resins for bearings are the grades no. 54 and 68. Bearings from no. 54 resins lubricated with water or oil at a speed of 4 m/sec operated under a specific pressure of 300 kg/cm² and higher. Bearing bushes coated with a powdered Al and Fe mixture (Al- 30%, the rest being Fe) and Cu and

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Fe mixture (Cu - 40%, the rest being Fe) had a load capacity p = 70-100 kg/cm² and v = 1.1 m/sec. Bearing bushes coated with a mixture of phenol formaldehyde resin and 10% graphite operated satisfactorily on the average up to a load of 120 kg/cm² when lubricated with water and v = 1 1 m/sec; when lubricated with oil the load increased to 150 kg/cm². At v = 1 1 m/sec and lubrication with liquid oil the load capacity of bearing bushes from wood pulp amounts to 65-70 kg/cm². When the speed is increased to v = 4 m/sec the load limit is reduced to $45-50 \text{ kg/cm}^2$. The permissible load with water lubrication amounts to $70-100 \text{ kg/cm}^2$ at v=1.1 m/sec. Cord fiber is a plastic with a filler from the wastes of car tire manufacture, i. e., the threads of cord fabric additionally cleaned from rubber. Cotton fiber is made from emulsich resol resin and degreased cotton combinings. The utilization of mineral oil as lubricant deteriorates the operation of all plastics. The limit load for plastics at v = 1 m/sec in which the fabric is made on the base of wood cellulose does not exceed 40 kg/cm2, for cord fiber not more than 20 kg/cm², and only textolite operates at loads of up to 100 kg/cm2. The load capacity of plastics decreases with increased speed if lubrication is effected with oil. Correspondingly also μ increases considerably when working with oil lubrication (0.03-0.1) in comparison with water lubrication G. Mekhed (0.002-0.005). [Abstracter's note: Complete translation]

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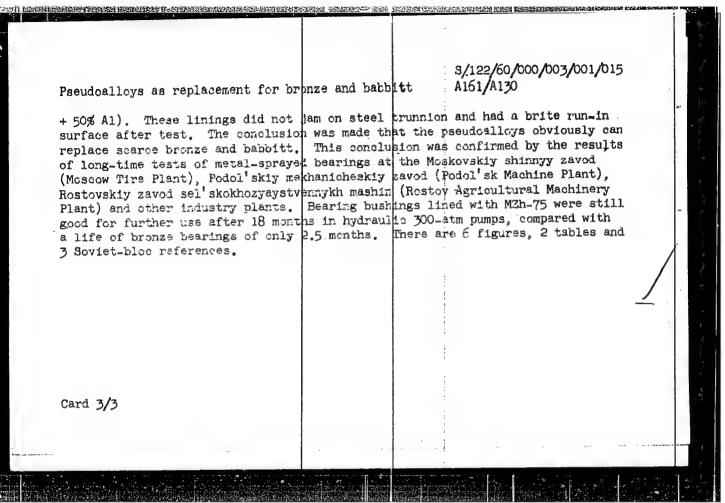
AUTHORS: Al'shits, I.Ya., Candidate of Technical Sciences; Antoshin, Ye.V.;
Sushkina, L.N.; Edsl'son, A.M.; - Engineers

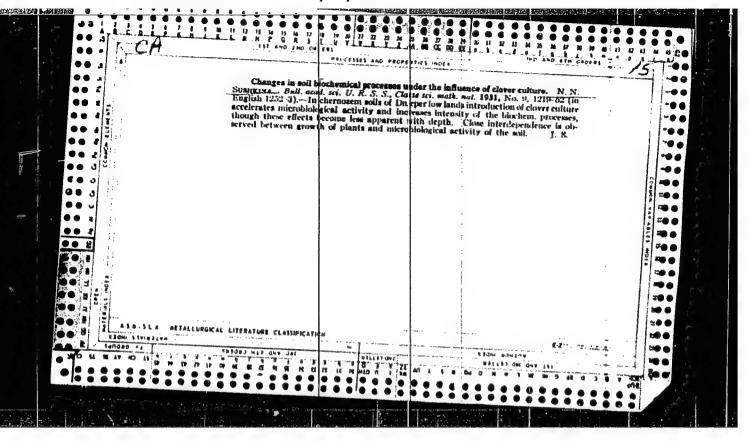
TITLE: Pseudballoys as replacement for bronze and babbitt

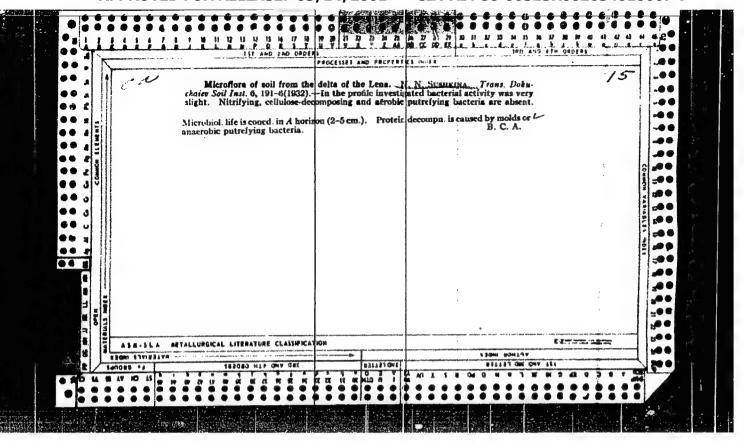
PERIODICAL: Vestnik mashinostroveniya, no. 3, 1960, 3 - 6

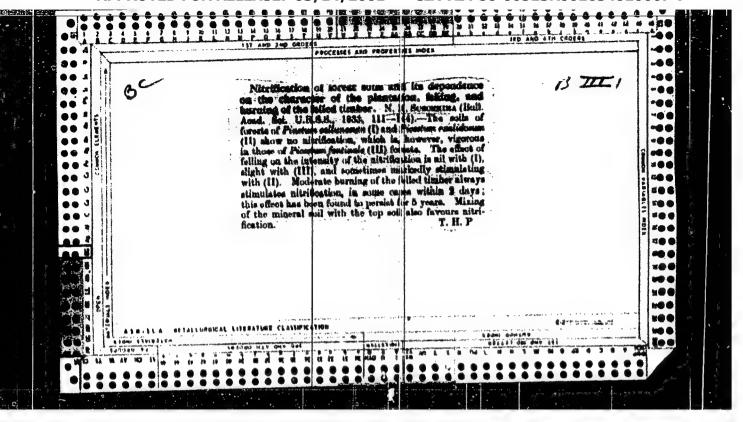
TEXT: Information on Soviet pseudoalloys used lately for bearing linings and applied by spraying is presented. It is stated that the Soviet pseudoalloy compositions are close to compositions used in foreign practice for various machine bearings. Fine economic importance of these replacements for nonferrous metals is stressed. VNIIAVTOHEN jointly with TSNIIMASH and VFIT syszhelogo mashinostroyenlya (VFIT of Heavy-Duty Machinery) have carried out comparative tests of pseudoalloys with tin bronze, tin-free bronze, and by 83 (B63) babbitt. The test data have been used for an industrial standard (normal) for antification coatings issued by VNIIAVTOHEN. The compositions of pseudolicys on steel and copper base used in tests are given (Table 1):

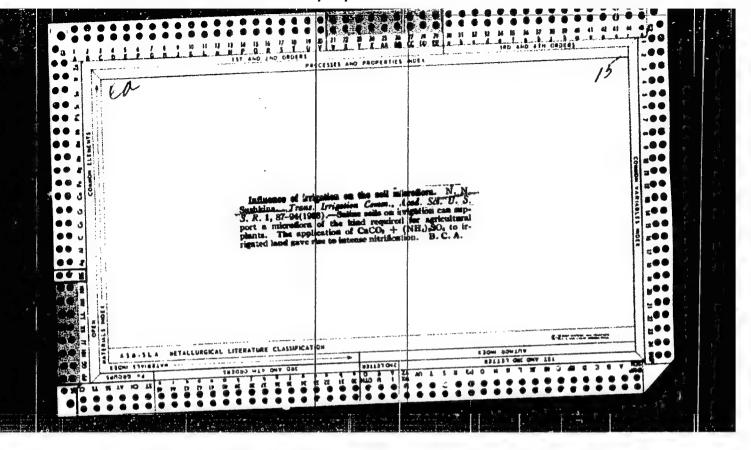
Pseudoallows as replacement for bronze	e and han	-Compan - Service		2/60/00 /A130	00/003/	/ 001 / 0	15 —
	Majo	r eleme	int con	tent in	weigh	it, %	
	Al	Fe	Ou	Zr	Fb	Sn	Sb
Aluminum-steel ADK _50 (AZh-50) Copper-steel MDK _75 (MZh-75)	48-50	50-52	25-30	-	-	-	-
Brass-steel // OK -75 (12h-75)	-			8-10	_		_
Steel OK 100 (Zh100)	-	100	- 50-52	-	-	-	-
Copper-steel MOHC-50 (MZh-50) Copper-lead MC -25 (MS-25)	-		70-75	-	25-30	-	-
Copper-tin-lead M 75 NOC 30 (M75PC\$30)			90-91		6-7	2-3	1
The linings were applied with a three-VNIIAVTOJEN design and a three-phase Heavy Duty Machinery; an AIC(LTS) to for running-in and load capacity. The mately the same as of bronze (except load capacity at sliding velocity vereated copper-lead "MS25" had the his containing compositions in respect to	TM -2 (TM- est machin e friction of Zh100 s 1 - 4 m/s ghest (200	2) sprage of Tale of T	ying a NIIIMA of pa Zh100 -75 kg/	pparatu Sh was eudoall steel am ²), a	us of Vused it loys was had the lost of th	/PTI of or teas appoint appoin	f sts croxi- est -
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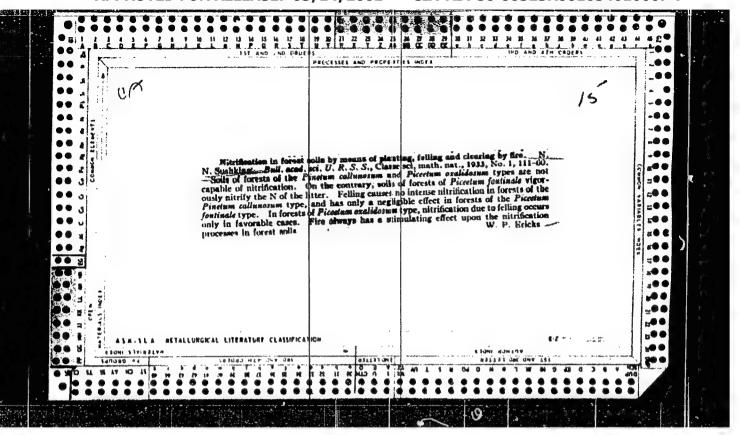


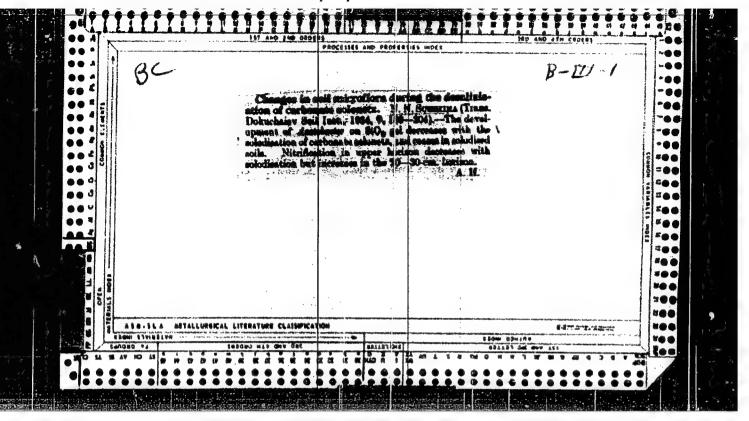


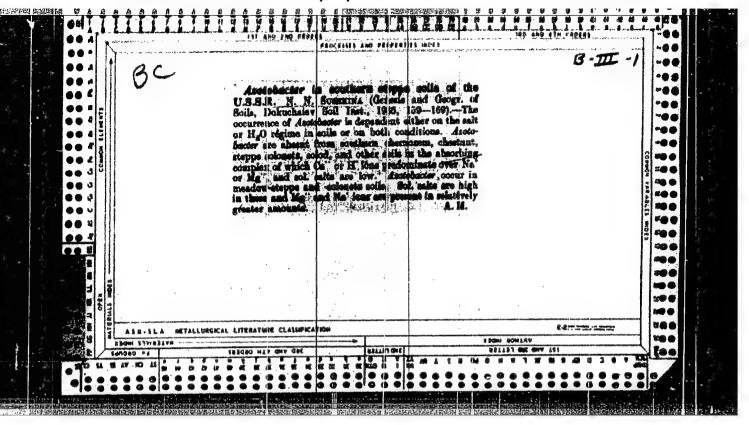










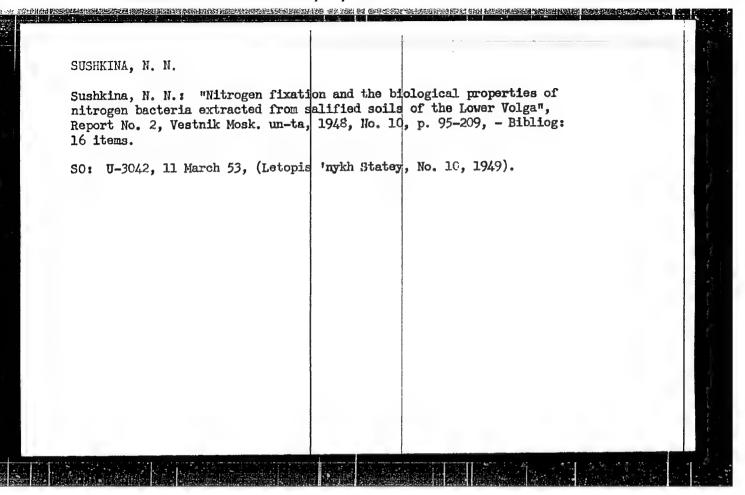


SISHKIMA, N. N.

USER/Chemistry - "I minum Silicates by Means of Soil Bacteria," L. Ye. Novoros.ova, N. P. Remezov, N. N. Sushkina, Moscow State University imeni M. V. Lomonosov, 32 -
"Dok Ak Nauk" Vol LVIII, No 4

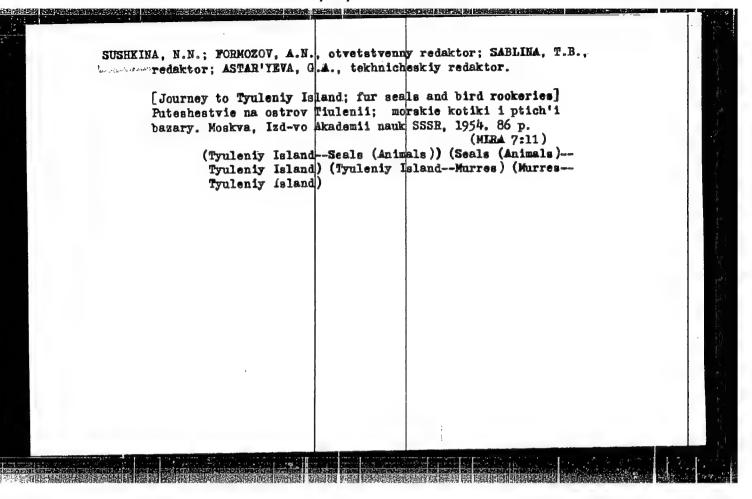
It had been assumed for a long time that soil bacteria were very active in the process of decomposing aluminum silicates as well as potasi, and dolomites, with the resultant formation of soil. Authors give very general description of experiments and results obtained in their course of studies confirming the fact that soil bacteria did actually break down aluminum silicates into soil. Submitted by Academician B. B. Polynov, 20 May 1947.

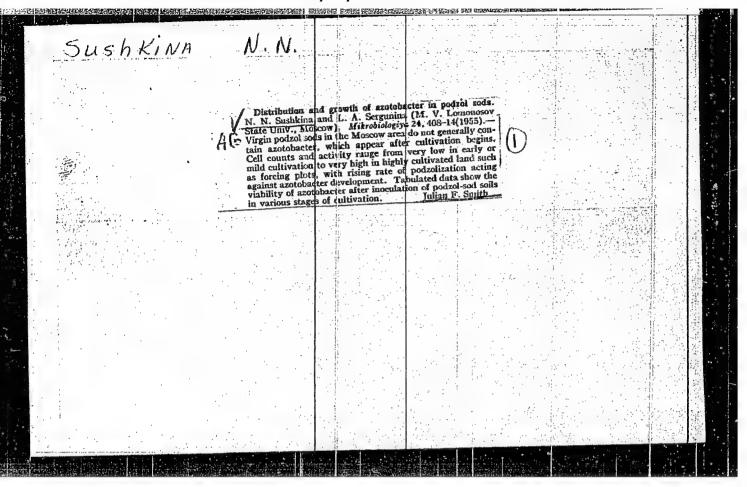
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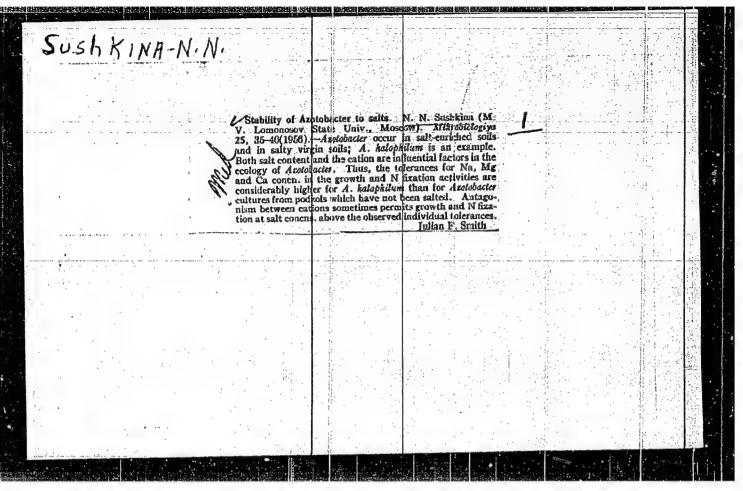


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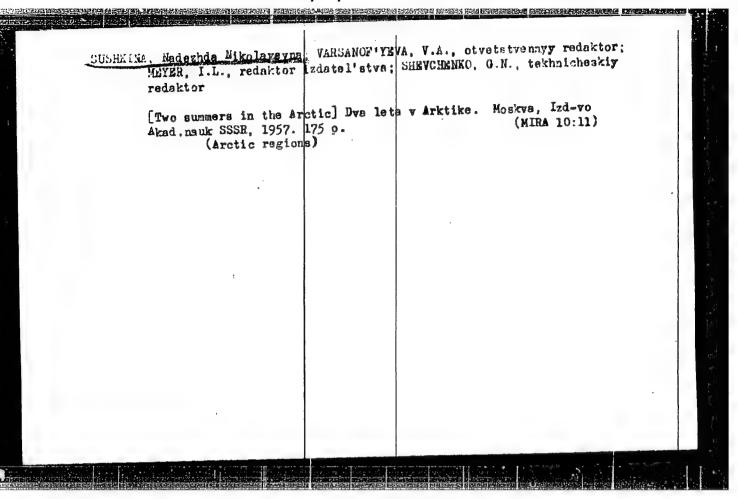
Bacteria, Nitrifying Present day data on the ecology of Azotobacter chrococccum, review. Mikrobiologiia 21 no. 1:96-108 Ja-F '52
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Present day data on the ecology of Azotobacter chrococccum, review. Mikrobiologiia 21 no. 1:96-108 Ja-F '52
Monthly List of Russian Accessions, Library of Congress, July 1952. Unclassified

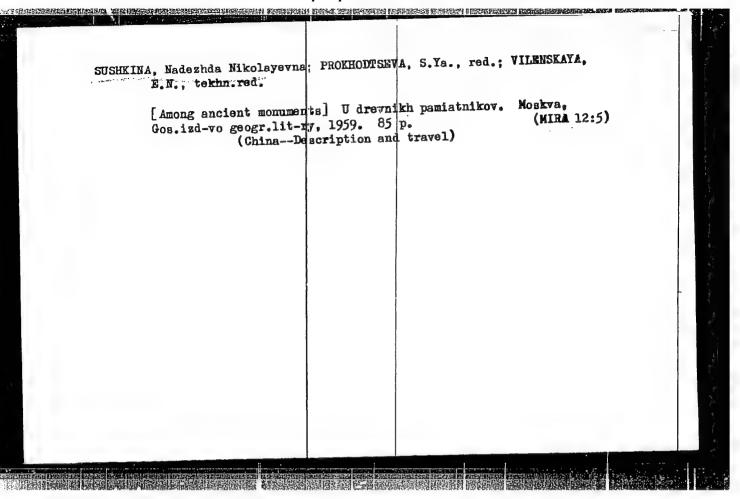




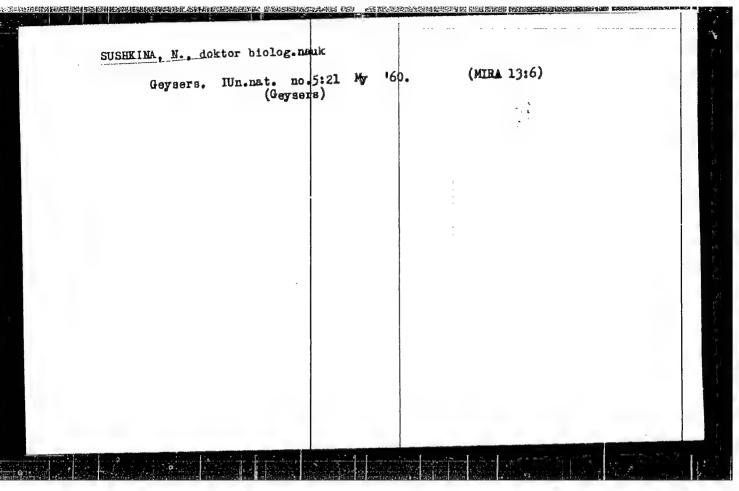


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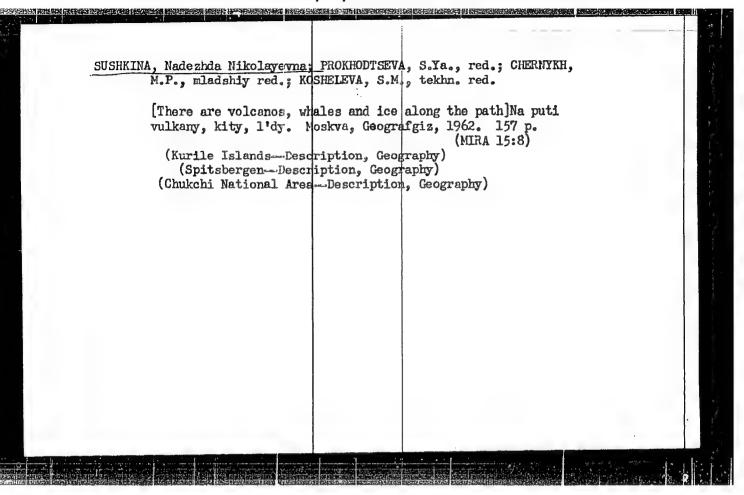
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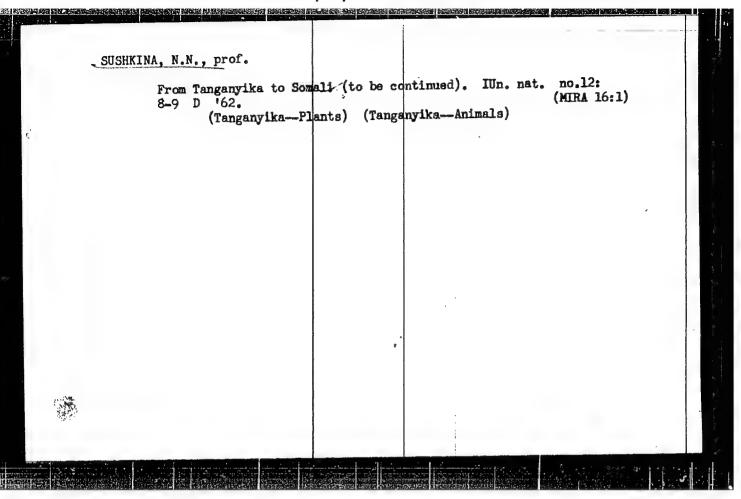
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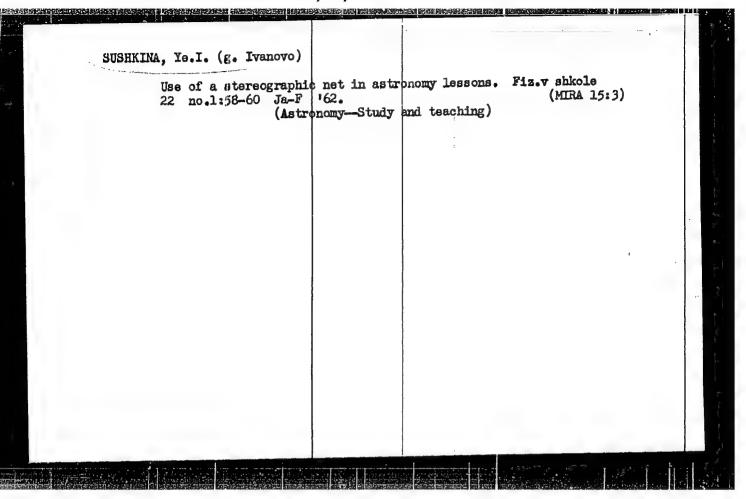
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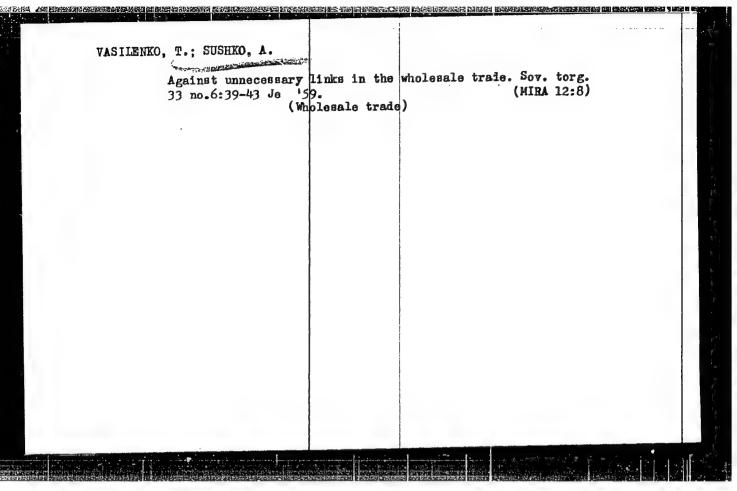


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USSR/Astronomy-Stars, Giants	Mar Apr 53
SUSHKINA, YE.I.	
"Model of Red Giant with Isothermal C	ore," Ye. I. Sushkina, Ivanovo State Pedagogical Inst.
Astr Zhur, Vol 30, No 2, pp 180-183	
4.7	
/Eriticizes red-giant models in Americ	an literature and presents her conception of
model with isothermal core, as quite	different from models with convective core. Analyzes
possible evolution of red giants and	their connection with the main sequence.
Received 30 Nov 52.	
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"Problem of the Evolution of Red Giants," Ye. I. Sushkina, Ivanovo State Pedagog Inst Astron Zhur, Vol 30, No 3, pp 274-278 States that subject problem is to calculate a sequence of models of red giants with isothermal states and to decide the possible courses of their evolution. Thanks V. S. Sorokin for nucleus and to decide the possible courses of their evolution. Thanks V. S. Sorokin for proposing the subject and for his guidance and the A. G. Masevich for his decided to the proposing the subject and for his guidance and the A. G. Masevich for his decided to the proposing the subject and for his guidance and the A. G. Masevich for his decided to the proposing the subject and for his guidance and the A. G. Masevich for his decided to the proposing the subject and for his guidance and the A. G. Masevich for his decided to the proposing the subject and for his guidance and the A. G. Masevich for his decided to the proposing the subject and for his guidance and the A. G. Masevich for his decided to the proposing the subject and for his guidance and the proposing the subject and for his guidance and the proposing the subject and for his guidance and the proposing the subject and for his guidance and the proposition of the propos	USSR/Astronomy - Red Ciants - Evolution - SUSHKINA, Ye. 1. May/Jun 53 - Stellar Evolution	
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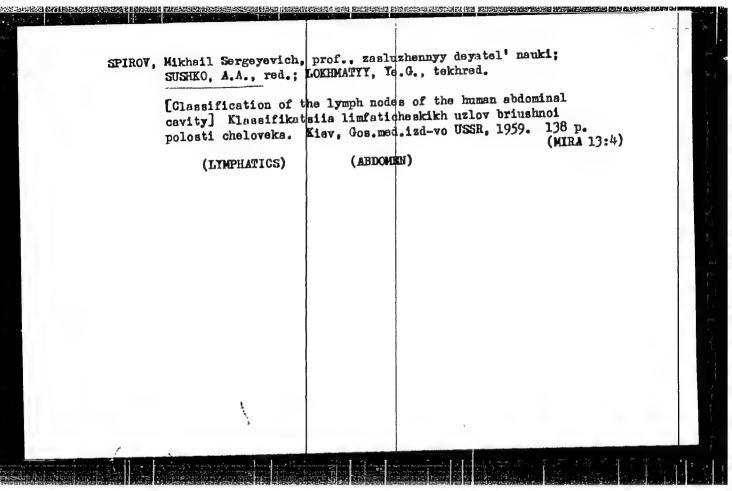




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